

Trade name: Menthae piperitae aetheroleum

Substance number: 015100

Version: 7 / CH

Date revised: 11.07.2023

Replaces Version: 6 / CH

Print date: 11.07.23

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Menthae piperitae aetheroleum

Item No. 01510000

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Flavour/Fragrance

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Skin Sens. 1 H317

Aquatic Chronic 2 H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms ***



Signal word ***

Warning

Hazard statements ***

H302

Harmful if swallowed.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H317

May cause an allergic skin reaction.

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H411 Toxic to aquatic life with long lasting effects.

Precautionary statements ***

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P501.3 Disposal in compliance with local and national regulations.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains *** 1,8-Cineole; isomenthone; 3,7-Dimethyl-1,6-octadien-3-ol; p-menth-1-en-4-ol; trans-menthone; alpha-Pinene, not specified; (R)-p-mentha-1,8-diene; (1S)-beta-Pinene; p-mentha-1,3-diene; 4,5,6,7-tetrahydro-3,6-dimethylbenzofuran; p-menth-4(8)-en-3-one

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients *****Chemical characterization**

Mixture of the following listed substances with harmless admixtures.

Hazardous ingredients *****L-menthol**

| | | | | |
|--|---------------|----|------|---|
| CAS No. | 2216-51-5 | | | |
| EINECS no. | 218-690-9 | | | |
| Concentration | >= | 50 | | % |
| Classification (Regulation (EC) No. 1272/2008) | Skin Irrit. 2 | | H315 | |
| | Eye Irrit. 2 | | H319 | |

trans-menthone

| | | | | |
|--|-------------------|----|------|------|
| CAS No. | 89-80-5 | | | |
| EINECS no. | 201-941-1 | | | |
| Concentration | >= | 50 | < | 66 % |
| Classification (Regulation (EC) No. 1272/2008) | Acute Tox. 4 | | H302 | |
| | Aquatic Chronic 3 | | H412 | |

| | | | | |
|-------|------|--|-----|-------|
| cATpE | oral | | 500 | mg/kg |
|-------|------|--|-----|-------|

1,8-Cineole

| | | | | |
|--|---------------|----|------|------|
| CAS No. | 470-82-6 | | | |
| EINECS no. | 207-431-5 | | | |
| Concentration | >= | 10 | < | 25 % |
| Classification (Regulation (EC) No. 1272/2008) | Flam. Liq. 3 | | H226 | |
| | Skin Sens. 1B | | H317 | |

L-menthyl acetate

| | |
|------------|-----------|
| CAS No. | 2623-23-6 |
| EINECS no. | 220-076-0 |

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| | | | | | |
|--|----|-------------------|---|------|---|
| Concentration | >= | 2.5 | < | 10 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | | | |
| | | Aquatic Chronic 2 | | H411 | |

isomenthone

| | | | | | |
|--|-----------|---------------|---|------|---|
| CAS No. | 491-07-6 | | | | |
| EINECS no. | 207-727-4 | | | | |
| Concentration | >= | 1 | < | 10 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | | | |
| | | Skin Irrit. 2 | | H315 | |
| | | Skin Sens. 1 | | H317 | |

4,5,6,7-tetrahydro-3,6-dimethylbenzofuran

| | | | | | |
|--|-----------|-------------------|---|------|---|
| CAS No. | 494-90-6 | | | | |
| EINECS no. | 207-795-5 | | | | |
| Concentration | >= | 2.5 | < | 6.6 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | | | |
| | | Acute Tox. 4 | | H302 | |
| | | Skin Irrit. 2 | | H315 | |
| | | Eye Irrit. 2 | | H319 | |
| | | Aquatic Chronic 2 | | H411 | |

| | | | | | |
|-------|------|--|-----|--|-------|
| cATpE | oral | | 500 | | mg/kg |
|-------|------|--|-----|--|-------|

(+)-neomenthol

| | | | | | |
|--|-----------|---------------|---|------|---|
| CAS No. | 2216-52-6 | | | | |
| EINECS no. | 218-691-4 | | | | |
| Concentration | >= | 1 | < | 10 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | | | |
| | | Skin Irrit. 2 | | H315 | |

(R)-p-mentha-1,8-diene

| | | | | | |
|--|-----------|-------------------|---|------|---|
| CAS No. | 5989-27-5 | | | | |
| EINECS no. | 227-813-5 | | | | |
| Concentration | >= | 1 | < | 10 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | | | |
| | | Flam. Liq. 3 | | H226 | |
| | | Asp. Tox. 1 | | H304 | |
| | | Skin Irrit. 2 | | H315 | |
| | | Skin Sens. 1B | | H317 | |
| | | Aquatic Acute 1 | | H400 | |
| | | Aquatic Chronic 3 | | H412 | |

| | | | | | |
|--|--|-----------------|--|-------|--|
| Concentration limits (Regulation (EC) No. 1272/2008) | | | | | |
| | | Aquatic Acute 1 | | M = 1 | |

p-menth-4(8)-en-3-one

| | | | | | |
|--|-----------|--------------|---|------|---|
| CAS No. | 89-82-7 | | | | |
| EINECS no. | 201-943-2 | | | | |
| Concentration | >= | 1 | < | 3.3 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | | | |
| | | Acute Tox. 4 | | H302 | |

| | | | | | |
|-------|------|--|-----|--|-------|
| cATpE | oral | | 500 | | mg/kg |
|-------|------|--|-----|--|-------|

p-menth-1-en-4-ol

| | | | | | |
|------------|-----------|--|--|--|--|
| CAS No. | 562-74-3 | | | | |
| EINECS no. | 209-235-5 | | | | |

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| | | | | | |
|--|----|---------------|---|------|---|
| Concentration | >= | 1 | < | 3.3 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | | | |
| | | Acute Tox. 4 | | H302 | |
| | | Skin Irrit. 2 | | H315 | |
| | | Eye Irrit. 2 | | H319 | |

| | | | | | |
|-------|------|--|-----|--|-------|
| cATpE | oral | | 500 | | mg/kg |
|-------|------|--|-----|--|-------|

alpha-Pinene, not specified

CAS No. 80-56-8

EINECS no. 201-291-9

| | | | | | |
|---------------|----|---|---|-----|---|
| Concentration | >= | 1 | < | 2.5 | % |
|---------------|----|---|---|-----|---|

Classification (Regulation (EC) No. 1272/2008)

| | | | | | |
|--|--|-------------------|--|------|--|
| | | Flam. Liq. 3 | | H226 | |
| | | Asp. Tox. 1 | | H304 | |
| | | Skin Irrit. 2 | | H315 | |
| | | Skin Sens. 1B | | H317 | |
| | | Aquatic Acute 1 | | H400 | |
| | | Aquatic Chronic 1 | | H410 | |
| | | Acute Tox. 4 | | H302 | |

Concentration limits (Regulation (EC) No. 1272/2008)

| | | | | | |
|--|--|-------------------|--|-------|--|
| | | Aquatic Acute 1 | | M = 1 | |
| | | Aquatic Chronic 1 | | M = 1 | |

| | | | | | |
|-------|------|--|-----|--|-------|
| cATpE | oral | | 500 | | mg/kg |
|-------|------|--|-----|--|-------|

(1S)-beta-Pinene

CAS No. 18172-67-3

EINECS no. 242-060-2

| | | | | | |
|---------------|----|---|---|-----|---|
| Concentration | >= | 1 | < | 2.5 | % |
|---------------|----|---|---|-----|---|

Classification (Regulation (EC) No. 1272/2008)

| | | | | | |
|--|--|-------------------|--|------|--|
| | | Flam. Liq. 3 | | H226 | |
| | | Asp. Tox. 1 | | H304 | |
| | | Skin Irrit. 2 | | H315 | |
| | | Skin Sens. 1 | | H317 | |
| | | Aquatic Acute 1 | | H400 | |
| | | Aquatic Chronic 1 | | H410 | |

Concentration limits (Regulation (EC) No. 1272/2008)

| | | | | | |
|--|--|-------------------|--|-------|--|
| | | Aquatic Acute 1 | | M = 1 | |
| | | Aquatic Chronic 1 | | M = 1 | |

p-mentha-1,3-diene

CAS No. 99-86-5

EINECS no. 202-795-1

| | | | | | |
|---------------|----|-----|---|---|---|
| Concentration | >= | 0.1 | < | 1 | % |
|---------------|----|-----|---|---|---|

Classification (Regulation (EC) No. 1272/2008)

| | | | | | |
|--|--|-------------------|--|--|--|
| | | Asp. Tox. 1 | | | |
| | | Flam. Liq. 3 | | | |
| | | Acute Tox. 4 | | | |
| | | Aquatic Chronic 2 | | | |

3,7-Dimethyl-1,6-octadien-3-ol

CAS No. 78-70-6

EINECS no. 201-134-4

| | | | | | |
|---------------|----|-----|---|---|---|
| Concentration | >= | 0.1 | < | 1 | % |
|---------------|----|-----|---|---|---|

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| | |
|---------------|------|
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2 | H319 |
| Skin Sens. 1B | H317 |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. If the patient is likely to become unconscious, place and transport in stable sideways position. Take medical treatment.

After skin contact

Wash off immediately with soap and water and rinse well.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). By continuous complaints consult a physician.

After ingestion

Drink water in small gulps. Never give anything by mouth to an unconscious person. Summon a doctor immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Dry powder, Water spray jet, Sand, Extinguish greater fire with alcohol-resistant foam.

Non suitable extinguishing media

Full water jet

5.3. Advice for firefighters

Special protective equipment for fire-fighting

No special measures required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Not required.

6.2. Environmental precautions

Advise water authority if spillage has entered water course or drainage system. Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). Ensure adequate ventilation.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of aerosols.

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Advice on protection against fire and explosion

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

No special requirements.

Hints on storage assembly

Not required.

Storage classes

| | | |
|-------------------------------------|-------|-----------------------------------|
| Storage class according to TRGS 510 | 10 | Flammable liquids |
| Storage category (Switzerland) | 10/12 | Other liquid hazardous substances |

Further information on storage conditions

None.

SECTION 8: Exposure controls/personal protection *****8.1. Control parameters****Exposure limit values *******(R)-p-mentha-1,8-diene**

| List | SUVA | | | |
|---------------------------|------|-------------------|----|--------|
| Type | MAK | | | |
| Value | 40 | mg/m ³ | 7 | ppm(V) |
| Short term exposure limit | 80 | mg/m ³ | 14 | ppm(V) |

Pregnancy group: S; Remarks: S SSc; LeberKT AN

8.2. Exposure controls**General protective and hygiene measures**

Keep away from food-stuffs, beverages and feed-stocks. Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Avoid contact with skin and eyes.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

Protective gloves

Appropriate Material

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material

Gloves / multi-resistant to chemicals: Barrier 02-100 (Ansell)

Eye protection

Safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|----------------|----------------|
| Physical state | liquid |
| Colour | yellowish |
| Odour | characteristic |

Boiling point or initial boiling point and boiling range

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Remarks not determined

Flash point

Value 71 °C

Vapour pressure

Remarks No data available

Density and/or relative densityValue 0.9 g/cm³

Temperature 20 °C

9.2. Other information**Solubility in water**

Remarks Immiscible resp. little miscible.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No decomposition if stored and applied as directed.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No decomposition if stored and applied as directed.

10.5. Incompatible materials

No dangerous reactions known.

10.6. Hazardous decomposition products

None known

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

| | | |
|--------|--|-------|
| ATE | 800.128 | mg/kg |
| Method | calculated value (Regulation (EC) No. 1272/2008) | |

Acute oral toxicity (Components)**1,8-Cineole**

| | | |
|---------|-------|-------|
| Species | rat | |
| LD50 | 2840 | mg/kg |
| Source | RTECS | |

(R)-p-mentha-1,8-diene

| | | |
|---------|------|-------|
| Species | rat | |
| LD50 | 4400 | mg/kg |

(R)-p-mentha-1,8-diene

| | | |
|---------|-------|-------|
| Species | mouse | |
| NOAEL | 1650 | mg/kg |

(R)-p-mentha-1,8-diene

| | | |
|---------|-------|-------|
| Species | mouse | |
| LOAEL | 3300 | mg/kg |

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Acute dermal toxicity (Components)**(R)-p-mentha-1,8-diene**

| | | |
|---------|--------|------------|
| Species | rabbit | |
| LD50 | > | 5000 mg/kg |

Acute inhalative toxicity (Components)**(R)-p-mentha-1,8-diene**

| | |
|---------|--------------------|
| Remarks | No data available. |
|---------|--------------------|

Skin corrosion/irritation

| | |
|---------|--------------------------------|
| Remarks | Irritates the mucous membrane. |
| Remarks | Irritating to skin. |

Skin corrosion/irritation (Components)**(R)-p-mentha-1,8-diene**

| | |
|---------|--------------------|
| Remarks | No data available. |
|---------|--------------------|

Serious eye damage/irritation

| | |
|------------|---------------------------------|
| evaluation | irritant |
| Remarks | Risk of serious damage to eyes. |

Serious eye damage/irritation (Components)**(R)-p-mentha-1,8-diene**

| | |
|------------|-------------------------------|
| Species | rabbit |
| evaluation | non-irritant |
| Method | OECD 405 |
| Remarks | No effect of irritation known |

Sensitization

| | |
|---------|------------------------------------|
| Remarks | May cause allergic skin reactions. |
|---------|------------------------------------|

Sensitization (Components)**(R)-p-mentha-1,8-diene**

| | |
|------------|--|
| Species | mouse |
| evaluation | sensitizing |
| Method | OECD 429 |
| Remarks | May cause sensitization by skin contact. |

Subacute, subchronic, chronic toxicity (Components)**(R)-p-mentha-1,8-diene**

| | |
|---------|--------------------|
| Remarks | No data available. |
|---------|--------------------|

Mutagenicity

| | |
|---------|------|
| Remarks | None |
|---------|------|

Mutagenicity (Components)**(R)-p-mentha-1,8-diene**

| | |
|---------|----------|
| Species | mouse |
| Remarks | negative |

(R)-p-mentha-1,8-diene

| | |
|---------|------------|
| Species | rat (male) |
| Remarks | negative |

Reproductive toxicity

| | |
|---------|------|
| Remarks | None |
|---------|------|

Reproduction toxicity (Components)**(R)-p-mentha-1,8-diene**

| | |
|---------|--------------------|
| Remarks | No data available. |
|---------|--------------------|

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Carcinogenicity

Remarks None

Carcinogenicity (Components)**(R)-p-mentha-1,8-diene**

Species rat
 Remarks May cause cancer.
 Source RTECS

(R)-p-mentha-1,8-diene

Species mouse
 Remarks Based on available data, the classification criteria are not met.
 Source RTECS

Specific Target Organ Toxicity (STOT) (Components)**(R)-p-mentha-1,8-diene**

Remarks Not applicable

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information *****12.1. Toxicity****Fish toxicity**

Remarks Toxic for fishes.

Fish toxicity (Components)**1,8-Cineole**

Species Fathead minnow (*Pimephales promelas*)
 LC50 102 mg/l
 Duration of exposure 96 h

(R)-p-mentha-1,8-diene

Species Fathead minnow (*Pimephales promelas*)
 LC50 0.72 mg/l
 Duration of exposure 96 h
 Method OECD 203

Daphnia toxicity (Components)**(R)-p-mentha-1,8-diene**

Species Daphnia magna
 0.36 mg/l
 Duration of exposure 48 h

Algae toxicity (Components)**(R)-p-mentha-1,8-diene**

Remarks No data available.

Bacteria toxicity (Components)**(R)-p-mentha-1,8-diene**

Species activated sludge
 EC50 3.94 mg/l
 Method OECD 209

12.2. Persistence and degradability

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Physico-chemical eliminability (Components)**(R)-p-mentha-1,8-diene**

Remarks No data available.

Biodegradability (Components)**(R)-p-mentha-1,8-diene**Value 71 %
evaluation Readily biodegradable**Ready degradability (Components)****(R)-p-mentha-1,8-diene****Chemical oxygen demand (COD) (Components)****(R)-p-mentha-1,8-diene**

Remarks No data available.

Biochemical oxygen demand (BOD5) (Components)**(R)-p-mentha-1,8-diene**

Remarks No data available.

12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow) (Components)****(R)-p-mentha-1,8-diene**

log Pow 4.2

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment *****The product contains no PBT substances
The product contains no vPvB substances.**12.6 Endocrine disrupting properties****Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information / ecology**

Do not allow it to reach ground water, water bodies or sewage system. Hazard for drinking water supplies. Toxic for aquatic organisms.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**EWC waste code No not dispose with rubbish.
Disposal in compliance with local and national regulations.
EWC waste code Should not be released into the sanitary sewer system.**Disposal recommendations for packaging**

Dispose of as unused product.

SECTION 14: Transport information

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| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|----------------------------------|--|--|--|
| Tunnel restriction code | - | | |
| 14.1. UN number | 3082 | 3082 | 3082 |
| 14.2. UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (L-menthyl acetate) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (L-menthyl acetate) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (L-menthyl acetate) |
| 14.3. Transport hazard class(es) | 9 | 9 | 9 |
| Label |  |  |  |
| 14.4. Packing group | III | III | III |
| Limited Quantity | 5 l | | |
| Transport category | 3 | | |
| 14.5. Environmental hazards |  ENVIRONMENTALLY HAZARDOUS | Marine Pollutant  |  ENVIRONMENTALLY HAZARDOUS |

SECTION 15: Regulatory information ***

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (Germany)

Water Hazard Class
(Germany)

WGK 3

Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

SECTION 16: Other information

Hazard statements listed in Chapter 3

| | |
|------|---|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

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H412

Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

| | |
|-------------------|---|
| Acute Tox. 4 | Acute toxicity, Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic, Category 2 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Irrit. 2 | Eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquid, Category 3 |
| Skin Irrit. 2 | Skin irritation, Category 2 |
| Skin Sens. 1 | Skin sensitization, Category 1 |
| Skin Sens. 1B | Skin sensitization, Category 1B |

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.